FILE 'HOME' ENTERED AT 12:42:46 ON 05 NOV 2008

=> index bioscience

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 0.21 0.21

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AOUALINE, AOUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ... 'ENTERED AT 12:43:14 ON 05 NOV 2008

69 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0\* with SET DETAIL OFF.

=> s (cholesterol (s) (ldl or (low (2a) density)) (s) total UNMATCHED LEFT PARENTHESIS '(CHOLESTERO' The number of right parentheses in a query must be equal to the

number of left parentheses. => s ((cholesterol (s) (ldl or (low (2a) density)) (s) total

The number of right parentheses in a query must be equal to the number of left parentheses.

=> s cholesterol (s) (ldl or (low (2a) density)) (s) total

- 4713 FILE ADISCTI
- 167 FILE ADISINSIGHT

UNMATCHED LEFT PARENTHESIS '((CHOLESTERO'

- FILE ADISNEWS 711
- FILE AGRICOLA 1771
  - 75 FILE ANABSTR
  - 21 FILE ANTE
  - FILE AOUALINE
  - 57 FILE AOUASCI
- 138 FILE BIOENG
- 11134 FILE BIOSIS 96 FILE BIOTECHABS
  - FILE BIOTECHDS 96
- 1082 FILE BIOTECHNO
- 6757 FILE CABA
- FILE CAPLUS 8452
- FILE CEABA-VTB 54 FILE CIN
- 10 FILE CONFSCI
- FILE CROPU
- 30 FILE DDFB
- 3747 FILE DDFU
- FILE DGENE 3672
- 568 FILE DISSABS
- FILE DRUGB 30
- 7904 FILE DRUGU 27 FILES SEARCHED...
- FILE EMBAL
  - 13298 FILE EMBASE
  - 6810 FILE ESBIOBASE
  - FILE FROSTI
  - 1236 1149 FILE FSTA
    - FILE HEALSAFE

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           FILE IMSPRODUCT
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           FILE KOSMET
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           FILE OCEAN
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 49 FILES SEARCHED...
        92 FILE PHARMAML
            FILE PHIC
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           FILE TOXCENTER
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       94
      3960
           FILE USPATFULL
            FILE USPATOLD
       600
            FILE USPAT2
        15
            FILE VETU
             FILE WATER
       626
             FILE WPIDS
             FILE WPIFV
       626
            FILE WPINDEX
 59 FILES HAVE ONE OR MORE ANSWERS. 69 FILES SEARCHED IN STNINDEX
   QUE CHOLESTEROL (S) (LDL OR (LOW (2A) DENSITY)) (S) TOTAL
=> s L1 (s) (esterase or lipase or dehydrogenase)
        24
           FILE ADISCTI
           FILE ADISINSIGHT
           FILE ADISNEWS
        47 FILE AGRICOLA
           FILE ANABSTR
           FILE AOUASCI
           FILE BIOENG
        57 FILE BIOSIS
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           FILE CABA
        59
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           FILE DDFU
        70
       165
            FILE DGENE
            FILE DISSABS
        15
       171
           FILE DRUGU
 27 FILES SEARCHED...
           FILE EMBAL
            FILE EMBASE
        49
           FILE ESBIOBASE
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FILE FROSTI FILE FSTA FILE HEALSAFE

25 FILE IFIPAT 2 FILE IMSDRUGNEWS

15 37 3

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FILE IMSRESEARCH
         4
           FILE KOSMET
         1
        41 FILE LIFESCI
        57 FILE MEDLINE
         1 FILE NTIS
       223 FILE PASCAL
  50 FILES SEARCHED...
         1 FILE PHIN
            FILE PROMT
         8
        52 FILE SCISEARCH
        25 FILE TOXCENTER
       282 FILE USPATFULL
        29
            FILE USPAT2
        3.0
            FILE WPIDS
        30 FILE WPINDEX
 39 FILES HAVE ONE OR MORE ANSWERS, 69 FILES SEARCHED IN STNINDEX
L2 QUE L1 (S) (ESTERASE OR LIPASE OR DEHYDROGENASE)
=> s L2 (s) (surfactant or detergent or polyalkylene or polyoxyethylene)
            FILE ANABSTR
            FILE BIOTECHABS
         2
            FILE BIOTECHDS
             FILE CABA
         3
  22 FILES SEARCHED...

    FILE DISSABS

             FILE ESBIOBASE
            FILE IFIPAT
         1 FILE LIFESCI
  44 FILES SEARCHED...
        14 FILE USPATFULL
           FILE USPAT2
         2 FILE WPIDS
 67 FILES SEARCHED...
         2 FILE WPINDEX
 12 FILES HAVE ONE OR MORE ANSWERS, 69 FILES SEARCHED IN STNINDEX
L3 QUE L2 (S) (SURFACTANT OR DETERGENT OR POLYALKYLENE OR POLYOXYETHYLENE)
=> d rank
           14 USPATFULL
            5 IFIPAT
            3 CABA
            2 BIOTECHARS
            2 BIOTECHDS
            2 WPIDS
            2 WPINDEX
            1
               ANABSTR
               DISSABS
            1
           1 ESBIOBASE
1 LIFESCI
1 USPAT2
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COST IN U.S. DOLLARS
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                                                             TOTAL.
                                                    ENTRY
                                                            SESSION
FULL ESTIMATED COST
                                                     7.80
                                                               8.01
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F1

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FILE 'IFIPAT' ENTERED AT 12:50:15 ON 05 NOV 2008
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CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)
=> s L3
L4
          17 1.3
=> dup rem L4
PROCESSING COMPLETED FOR L4
L5
            14 DUP REM L4 (3 DUPLICATES REMOVED)
=> s L5 and pv<2005
  7 FILES SEARCHED...
            8 L5 AND PY<2005
=> d L6 ibib abs 1-8
   ANSWER 1 OF 8 IFIPAT COPYRIGHT 2008 IFI on STN
AN
                          10560327 IFIPAT; IFIUDB; IFICDB << LOGINID:: 20081105>>
TITLE:
                          Reagent for assaying lipid; Containing an
                          esterase; particularly to reagents for
                          assaying neutral fats, total
                          cholesterols, high-density lipoprotein
                          cholesterols, and/or low-
                          density lipoprotein cholesterols
                          for use in clinical chemistry; oxidation resistant
                          surfactant
INVENTOR(S):
                          Shirahase; Yasushi, Kobe-shi, JP
                          Yamashita; Kazuaki, Kobe-shi, JP
PATENT ASSIGNEE(S):
                         SYSMEX CORPORATION
```

SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W.,

SUITE 800, WASHINGTON, DC, 20037, US

AGENT:

 NUMBER
 PK
 DATE

 PATENT INFORMATION:
 US 20040067545
 A1 20040408

 APPLICATION INFORMATION:
 US 2003-633518
 20030805

DOCUMENT TYPE: Utility
Patent Application - First Publication

FILE SEGMENT: CHEMICAL

APPLICATION
ENTRY DATE: Entered STN: 11 Apr 2004

Last Updated on STN: 6 Oct 2005

NUMBER OF CLAIMS: 2

AB Effective stabilizing amount at least of one antioxidant is added to a composition containing an esterase and surfactant(s).

CLMN 20

L6 ANSWER 2 OF 8 CABA COPYRIGHT 2008 CABI on STN

ACCESSION NUMBER: 97:148220 CABA <<LOGINID::20081105>>

DOCUMENT NUMBER: 19971411415

TITLE: Clinical efficacy of the direct assay method using polymers for serum high density lipoprotein

cholesterol

cnoiestero

AUTHOR: Shirai, K.; Nema, T.; Hiroh, Y.; Itoh, Y.;

Miyashita, Y.; Watanabe, H.

CORPORATE SOURCE: Clinical Laboratory Medicine, Sakura Hospital, Toho

University School of Medicine, Sakura 285, Japan.

SOURCE: Journal of Clinical Laboratory Analysis, (

1997) Vol. 11, No. 2, pp. 82-86. 9 ref. ISSN: 0887-8013

Journal

DOCUMENT TYPE: Journal LANGUAGE: English

ENTRY DATE: Entered STN: 11 Dec 1997

Last Updated on STN: 11 Dec 1997

AB LDL and VLDL were coated with polymers and polyanions to block

cholesterol esterase and cholesterol oxidase.

The reduction of these enzymes for HDL cholesterol was enhanced

with a detergent, and HDL cholesterol was selectively measured. Within-run (n=3, 20 times) and between-run (n=3, 7 days) CVs

were <2%. The repeated freezing and thawing (4 times) of 3 distinct sera resulted in no changes in HDL cholesterol values. Additions of

lipid emulsion (triglyceride 100 mg/100 ml) and free bilirubin (20 mg/100 ml) had no effect. Linearity was found up to 300 mg/100 ml. Increases in

HDL cholesterol values by the addition of VLDL (total

cholesterol (TC) 300 mg/ $\bar{1}00$  ml) or LDL (TC 300 mg/ $\bar{1}00$  ml) to the tested sera were <0.5%. The correlation coefficient of the new

method with a precipitation method was 0.995 (n=64). HDL-C values for patients with hyperlipaemia (Type IIa, IIb, or III, IV, and V) by this method were comparable with those obtained by the precipitation method. It

is concluded that the new method meets the requirements for accuracy, precision and ease of handling numerous samples.

precision and ease of handling numerous samples.

L6 ANSWER 3 OF 8 CABA COPYRIGHT 2008 CABI on STN

ACCESSION NUMBER: 82:79189 CABA <<LOGINID::20081105>>

DOCUMENT NUMBER: 19811428713

TITLE: Hyperlipidemia in rats fed retinoic acid

AUTHOR: Gerber, L. E.; Erdman, J. W., Jr.

CORPORATE SOURCE: Dep. Food Science, Univ. Illinois, Urbana, IL 61801, USA.

SOURCE : Lipids, (1981) Vol. 16, No. 7, pp.

496-501. 29 ref. ISSN: 0024-4201

DOCUMENT TYPE: Journal LANGUAGE: English

ENTRY DATE: Entered STN: 1 Nov 1994

Last Updated on STN: 1 Nov 1994

After young adult male Sprague-Dawley rats had been given 1.2 retinol equivalents retinyl acetate plus supplemental retinoic acid (100 mu q/q dry diet) for 3 days and deprivation of food for 6 to 8 h, triglyceride,

cholesterol and phospholipid were estimated in serum lipoprotein fractions. Compared with controls, the serum very-low-

density lipoprotein (VLDL) and the high-density lipoprotein (HDL) fractions of rats given retinoic acid had an increased triglyceride

content. Whereas VLDL cholesterol and phospholipids were also increased, total serum cholesterol and phospholipids

were not changed. The detergent Triton WR-1339 was used to depress serum triglyceride clearance to assess the effects of retinoic acid feeding on serum triglycerides. Triglyceride accumulation started earlier after Triton treatment and was greater when rats were given

retinoic acid 100 mu g/g for 3 days before testing. Red and white gastrocnemius muscle, cardiac ventricular muscle and perirenal adipose tissue were removed from rats after retinoic acid feeding. Lipoprotein

lipase (EC 3.1.1.3) activity showed a decrease in adipose tissue, a large depression in both areas of gastrocnemius muscle and no change in cardiac muscle as a result of retinoic acid feeding.

ANSWER 4 OF 8 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN

ACCESSION NUMBER: 2000-08277 BIOTECHDS <<LOGINID::20081105>>

TITLE: Methods for fractional quantification of cholesterol in lipoproteins in biological samples such as serum which is

applicable by simple automatic procedure, useful for clinical diagnosis;

cholesterol quantification method in low density and high density lipoprotein using cholesterol-esterase,

cholesterol-oxidase and cholesterol-dehydrogenase for diagnosis Sugiuchi H

PATENT ASSIGNEE: Kvowa-Medex LOCATION: Tokvo, Japan.

PATENT INFO: WO 2000017388 30 Mar 2000 APPLICATION INFO: WO 1999-P 47128 30 Jul 1999 PRIORITY INFO: JP 1998-264367 18 Sep 1998

DOCUMENT TYPE: Patent LANGUAGE: English

OTHER SOURCE: WPI: 2000-283609 [24]

AN 2000-08277 BIOTECHDS <<LOGINID::20081105>> AB

A method for quantifying low density and/or high density lipoproteins (LDL and HDL, respectively)

cholesterol in a biological sample, which involves obtaining a

sample, mixing it with cholesterol-esterase (EC-3.1.1.13), cholesterol-oxidase (EC-1.1.3.6) or

cholesterol-dehydrogenase and then reaction the cholesterol with its specific cholesterol enzyme in the

presence of a reagent for generating hydrogen peroxide or reduced co-enzyme, is new. Also claimed are: a method for fractional

quantification of HDL cholesterol and total

cholesterol in a biological sample; a reagent for the reaction of

cholesterol in all lipoproteins which contains a surfactant that can dissolve the lipoprotein; a quantification reagent for LDL cholesterol which consists of a cholesterol enzyme and a reagent to act on the LDL cholesterol-specific cholesterol enzyme; a reagent kit for the fractional quantification of HDL and LDL cholesterol; and a reagent kit for the fractional quantification of HDL and total cholesterol. The above may be useful for the clinical diagnosis of diseases related to high cholesterol levels in lipoproteins, such as arteriosclerosis. (46pp) ANSWER 5 OF 8 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN ACCESSION NUMBER: 1988-07462 BIOTECHDS <<LOGINID::20081105>> TITLE: Specific measurement of high density lipoprotein cholesterol in serum;

using cholesterol-esterase and cholesterol-oxidase

PATENT ASSIGNEE: Boehr.Mannheim PATENT INFO: EP 265933 4 May 1988

APPLICATION INFO: EP 1987-115841 28 Oct 1987 PRIORITY INFO: DE 1986-636851 29 Oct 1986

DOCUMENT TYPE: Patent

LANGUAGE: German
OTHER SOURCE: WPI: 1988-121051 [18]

AN 1988-07462 BIOTECHDS <<LOGINID::20081105>>

AB Specific determination of high density lipoprotein (HDL)

cholesterol in the presence of the low density lipoprotein-fraction of serum lipoproteins comprises treatment with

cholesterol-esterase (CE, EC-3.1.1.13) to release cholesterol, which is oxidized with cholesterol-oxidase

(CO, EC-1.1.3.6) and O2 to form H2O2, the kinetics of formation being measured. The measurement is taken  $2-15\,\mathrm{min}$  after the start of the

oxidation reaction at 20-40 deg, especially 25-37 deg, for a

predetermined time interval. During measurement the concentrations of CE, CO, bile acid surfactant and nonionic surfactant  $\,$ 

are kept at 0.05-30~u/ml, 0.1-50~u/ml, 1-20~mM (especially 1.5-8~mM) and 0.1-10~g/l (especially 0.4-4.0~g/l), respectively and the pH is 5-9. The reagent which supplies the specified concentrations of components, the pH 5-9 buffer and the H202 measuring system are new. The HDL component is measured with a simple reagent in a single step and the sample can also be used for measurement of total cholesterol. The

nonionic detergent, especially a polyethyleneoxy compound, is added 1-14 min before measurement, especially 3-10 min after the start of oxidation. (16pp)

L6 ANSWER 6 OF 8 WPIDS COPYRIGHT 2008 THOMSON REUTERS on STN ACCESSION NUMBER: 2004-525059 [50] WPIDS

DOC. NO. CPI: C2004-193203 [50] DOC. NO. NON-CPI: N2004-416125 [50]

TITLE: Simultaneous measurement of cholesterol in low-density lipoprotein, and total cholesterol in a biological

sample, comprises quantifying cholesterol and total cholesterol in a single measurement procedure

DERWENT CLASS: B04; D16; S03

INVENTOR: MATSUI H

PATENT ASSIGNEE: (DENK-N) DENKA SEIKEN KK; (MATS-I) MATSUI H

COUNTRY COUNT: 106

PATENT INFO ABBR.:

PATENT NO KIND DATE WEEK LA PG MAIN IPC

WO 2004055204 A1 20040701 (200450)\* JA 28[3]

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AU 2003289081 A1 20040709 (200474) EN EP 1577398 A1 20050921 (200562) EN US 20060078958 A1 20060413 (200626) EN JP 2004560637 X 20060420 (200628) JA 19

KR 2005085539 A 20050829 (200644) KO CN 1748036 A 20060315 (200649) ZH

## APPLICATION DETAILS:

PA'	TENT NO KIND	API	PLICATION DATE
WO	2004055204 A1	WO	2003-JP15995 20031212
AU	2003289081 A1	AU	2003-289081 20031212
EP	1577398 A1	EP	2003-778913 20031212
EP	1577398 A1	WO	2003-JP15995 20031212
US	20060078958 A1	WO	2003-JP15995 20031212
JP	2004560637 X	WO	2003-JP15995 20031212
KR	2005085539 A	WO	2003-JP15995 20031212
JP	2004560637 X	JP	2004-560637 20031212
US	20060078958 A1	US	2005-537992 20050609
KR	2005085539 A	KR	2005-710592 20050610
CN	1748036 A	CN	2003-80109741 20031212

## FILING DETAILS:

PATENT NO			KIND			PATENT	PATENT NO		
	AU	2003289081	A1	Based	on	WO 200	4055204	A	
	EP	1577398	A1	Based	on	WO 200	4055204	A	
	JP	2004560637	X	Based	on	WO 200	4055204	A	
	KR	2005085539	A	Based	on	WO 200	4055204	Α	

PRIORITY APPLN. INFO: JP 2002-362970 20021213

AN 2004-525059 [50] WPIDS

AB WO 2004055204 A1 UPAB: 20060121

NOVELTY - Simultaneous measurement (M1) of cholesterol in low-density lipoprotein, and total cholesterol in a biological sample, comprises quantifying cholesterol and total cholesterol in a single measurement procedure.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a reagent composition (I) for carrying out (M1).

USE - (M1) is useful for simultaneous measurement (M1) of cholesterol in low-density lipoprotein, and total cholesterol in a biological sample (claimed).

ADVANTAGE - (M1) enables a simultaneous measurement of cholesterol in low-density lipoprotein, and total cholesterol in a biological sample (claimed).

- L6 ANSWER 7 OF 8 ANABSTR COPYRIGHT 2008 RSC on STN
- The analytical and clinical performance of two low-

density liproprotein cholesterol (LDL-C)

assays (LDL-CRD, Roche Diagnostics and LDL-CGZ, Genzyme) were evaluated simultaneously as well as those calculated by the

Friedewald calculation (LDL-CFried) (cf., Friedewald et al.), Clin. Chemical, 1972, 18, 499). LDL-CRD utilizes the fact that at a neutral pH value (7.0) in the presence of MgC12, sulfated

 $\alpha$ -cyclodextrin and dextran sulfate, the enzymatic reaction for cholesterol in very low-density lipoprotein

(VLDL) is markedly reduced (reagent 1). The non ionic detergent in reagent 2, selectively solubilizes LDL-C, enables measured of LDL-C by a conventional enzymatic reaction (cf., Sugiuchi et al., Clin. Chemical, 1998, 44, 522). The assay was calibrated and performed according to the manufacturer's recommendation. In the LDL-CGZ method (Genzyme, Cambridge, MA, USA), reagent 1 contains a detergent which solubilizes all non-LDL lipoproteins. The enzymes cholesterol esterase and cholesterol oxidase react with the non-LDL cholesterol. In the second step another detergent solubilizes the LDL-C so that it can be easily measured with a conventional enzymatic reaction (cf., Rifai et al., Clin. Chemical, 1998, 44, 1242). As before, the assay was performed according to the manufacturer's recommendations. Results (tabulated) showed that in order to classify someone correctly into the recommended National Cholesterol Education Program cut points, the total error requirement (≤12%), was met by the LDL-CGZ assay at all clinical decision cut-points, whereas the LDL-CND assay only met the requirement at concentrations of 4.92 mmol/1. The LDL-Cfried failed to meet the total error requirement, because the compounded imprecision of the three independent tests required for this calculation was high. At the medical decision cut-point range, LDL -CRD, LDL-CGZ and LDL-CFried assays showed positive predictive values of 89-100, 85-100 and 83-99%, respectively, and negative predictive values of 52-98, 77-98 and 68-98%, respectively.

ANSWER 8 OF 8 DISSABS COPYRIGHT (C) 2008 ProQuest Information and Learning Company; All Rights Reserved on STN

ACCESSION NUMBER: 1998:32674 DISSABS Order Number: AARMQ24831

TITLE: ALTERED PLASMA MEMBRANE CHOLESTEROL IN NIEMANN-PICK TYPE II

DEGANI, NIKHAT [M.SC.]; BYERS, DAVID M. [adviser] AUTHOR:

CORPORATE SOURCE: DALHOUSIE UNIVERSITY (CANADA) (0328)

SOURCE: Masters Abstracts International, (1997) Vol. 36,

No. 4, p. 1073. Order No.: AARMQ24831. 98 pages.

ISBN: 0-612-24831-3.

DOCUMENT TYPE: Dissertation MAI

FILE SEGMENT:

AB

LANGUAGE:

English

Niemann-Pick type II disease is an autosomal recessive, cholesterol storage disorder that leads to severe neurodegeneration and death usually by the second decade. The genetic defect inhibits processing of low density lipoprotein (LDL)-derived cholesterol resulting in lysosomal accumulation and impaired regulation of cholesterol synthesis, uptake, and esterification. The present study attempted to determine whether specific cholesterol domains within the plasma membrane might be affected in this disorder. Three separate approaches were taken: measurement of plasma membrane cholesterol efflux, plasma membrane sensitivity to permeabilization by the detergent digitonin, and analysis of caveolar domains. Efflux of plasma membrane \$\sp3\$H-cholesterol under conditions of plasma membrane labelling (1h preincubation with label) was much more rapid to methyl-\$beta\$-cyclodextrin \$rm(t\sb{1/2}<30 min) than to either LDL or HDL  ${\rm hom}(t\sb{1/2}=10{-}15\ h)$  and occurred at similar rates for both cell types. Basal efflux was also comparable in both normal and Niemann-Pick type II cells. Similar results were obtained when total cellular cholesterol was labelled (48 hour preincubation with label), indicating that regions of cholesterol participating in cholesterol efflux are not significantly altered in Niemann-Pick type II disease. Release of lactate

dehydrogenase, a cytosolic enzyme, was assayed as an indicator of susceptibility of cholesterol-rich domains of the plasma membrane to digitonin permeabilization. At low concentrations of digitonin (0.5  $\infty$ ) which is a concentration of digitonin (0.5  $\infty$ ) which is a concentration of digitonin control relative to Niemann-Pick cells, indicating that Niemann-Pick fibroblasts may have deficiencies in certain cholesterol-rich domains of the plasma membrane. However, no cell-specific differences in caveolin levels, caveolin extraction, or phosphotyrosine levels within caveolar domains were observed, suggesting that these cholesterol-rich regions may be conserved in Niemann-Pick type II disease.

=> logoff